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Name:

Reg.No:

FIFTH SEMESTER M.Sc. INTEGRATED GEOLOGY DEGREE EXAMINATION, NOV. 2024

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC20 GLO5 IB06 - METAMORPHIC PETROLOGY

(Geology)

(2020 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Limits of pressure during metamorphism.
2. Role of fluid in metamorphism.
3. Thermal metamorphism.
4. Shock metamorphism.
5. Xenoblastic texture.
6. Leocosome.
7. Amphibolite facies.
8. Abukuma facies series.
9. Geobarometry.
10. Dehydration reactions.
11. Decarbonation reactions.
12. Infiltrational metasomatism.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Describe fault zone and impact metamorphism.
14. Explain important non foliated metamorphic rocks.
15. Explain the equilibrium mineral assemblages concept in metamorphism.
16. Describe different grades of metamorphism.
17. Explain the different zones present in Barrovian sequence.

18. Paired metamorphic belts.
19. Metamorphic mineral assemblages of mafic rocks.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any *one* question. Each question carries 10 marks.

20. Give an account of various metamorphic structures and its significance.
21. Explain the origin and petrography of foliated rocks.

(1 × 10 = 10 Marks)
